## **ABSTRACT**

## DIPEPTIDYLPEPTIDASES AND METHODS OF USE

The present invention provides isolated polypeptides, dipeptidylpeptidases, active analogs, active fragments, or active modifications thereof, having amidolytic activity for cleavage of a peptide bond between the second and third amino acids from the N-terminal end of a target polypeptide, wherein the target polypeptide has an aliphatic or an aromatic residue as a substituent on the α-carbon atom of the second amino acid from the N-terminal end of the peptide. Isolated nucleic acids encoding dipeptidylpeptidases are also provided, as are methods of reducing growth of a bacterium by inhibiting a dipeptidylpeptidase.

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